



C A L I F O R N I A E N E R G Y C O M M I S S I O N

Staff Webinar

John Nuffer, Project Manager
Appliance & Existing Buildings Office
Efficiency Division

Responses to Invitation to Submit Proposals
in the 2012-2013 Appliance Efficiency Rulemaking
Sacramento
September 16, 2013



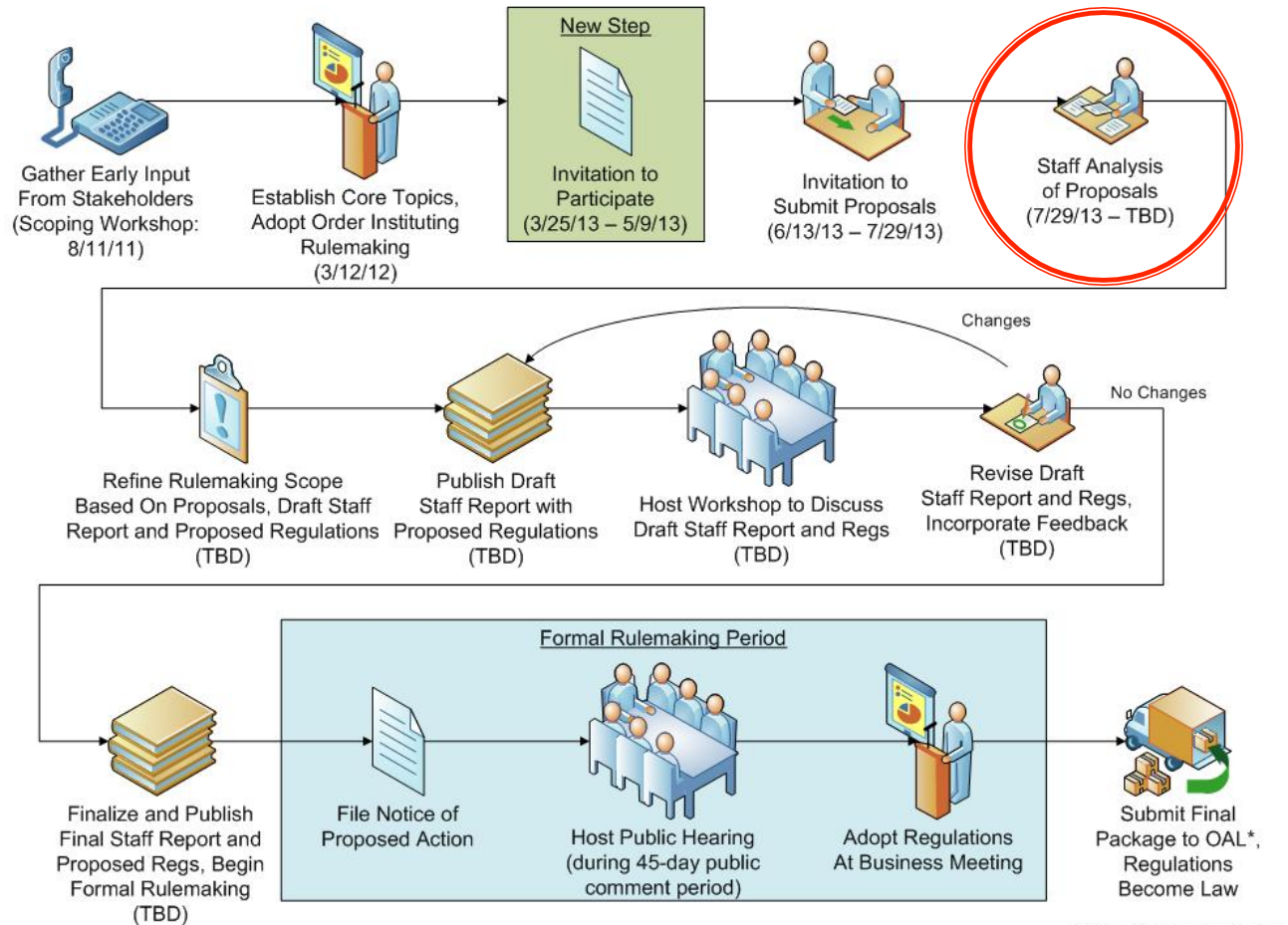
Agenda

1. Discuss rulemaking process
2. Discuss how staff is evaluating proposals received in response to the Invitation to Submit Proposals
2. Present brief overview of proposals
3. Accept comments and questions
4. Identify next steps and opportunities to participate



CALIFORNIA ENERGY COMMISSION

Context: Where We Are



*Office of Administrative Law



How our staff reviews proposals

- **Staff are primarily looking for the three requirements in the Warren-Alquist Act:**
 - Significant statewide energy or water use
 - Technologically feasible efficiencies
 - No added total costs for consumers over the designed life of the appliance
- **More detailed requirements are in Section 25402(c) of the California Resources Code.**



Proposal Categories

- Consumer Electronics (Docket #12-AAER-2A)
- Lighting (Docket #12-AAER-2B)
- Water Appliances (Docket #12-AAER-2C)
- Other Appliances
 - Commercial Clothes Dryers (Docket #12-AAER-2D)
 - Air Filters (Docket #12-AAER-2E)
 - Residential Pool Pumps & Motors (Docket #12-AAER-2F)
 - Portable Electric Spas (Docket #12-AAER-2G)



Consumer Electronics

Network Equipment:

- ☐ Investor Owned Utilities recommend adopting maximum average power draw standards and requiring “energy efficient Ethernet” protocols.

Set-top Boxes:

- ☐ Investor Owned Utilities and Natural Resources Defense Council recommend adopting standards that align with ENERGYSTAR draft specification 4.1 with slight modifications.
- ☐ Consumer Electronics Association, California Cable & Telecommunications Association, National Cable & Telecommunications Association and Telecommunications Industry Association oppose Set-top Box regulations.



Consumer Electronics

Displays:

- ☐ Investor Owned Utilities and Natural Resources Defense Council recommend power management and automatic brightness control requirements that align with ENERGY STAR version 6.
- ☐ Panasonic recommends that Professional Signage displays not be included.

Game Consoles:

- ☐ Investor Owned Utilities and Natural Resources Defense Council recommend an auto power down (APD) requirement, an internal power supply requirement, as well as two tiers (or phases) of modal requirements (for non-active modes).
- ☐ Entertainment Software Association (ESA) recommends a voluntary standard for the auto-power down (APD) feature with consoles powering down to a standby or networked standby mode.



Consumer Electronics

Computers:

- ☐ Investor Owned Utilities recommend a two-tier, 2015 (Tier 1) and 2017 (Tier 2) standard for computers based largely on ENERGY STAR 6.0 categories.
- ☐ Information Technology Industry Council and TechNet recommend adopting standards that align with ENERGY STAR version 5.2, with varying stringencies.
- ☐ NASBA—The Association of Channel Resellers
NASBA proposes the California Energy Commission harmonizes its regulations with Energy Star V 5.0.
- ☐ Information Technology Industry Council also recommends power management outreach.



Consumer Electronics

Other (for all electronics):

- ☐ AGGIOS, Inc. recommends a horizontal standard based on task-oriented efficiency.
- ☐ Green Leadership Technology Group is supportive of pathways for technologies to incorporate energy efficiency innovations without being cost-prohibitive or impacting functionality.



Lighting

Fluorescent Dimming Ballasts:

- ☐ Investor Owned Utilities and Natural Resources Defense Council recommend setting energy efficiency requirements based on Ballast Luminous Efficiency (BLE) at full light output and dimmed operating modes.

Light-emitting Diodes:

- ☐ Investor Owned Utilities and Natural Resources Defense Council proposed minimum quality and efficacy standards.
- ☐ National Electrical Manufacturers Association recommends minimum performance requirements for screw-based LED lamps, based predominantly on the NEMA standard SSL-4 2012.



Lighting

Small Diameter Directional Lamps:

- ☐ Investor Owned Utilities and Natural Resources Defense Council propose minimum lumen per watt energy efficiency standards.
- ☐ Seoul Semiconductor recommends harmonizing with existing ENERGY STAR program.

Metal Halide Luminaires:

- ☐ National Electrical Manufacturers Association recommends expanding and clarifying existing code language regarding the relamping of pulse start ballast outdoor lighting.



Water Appliances

Toilets & Urinals:

- ☐ Plumbing Manufacturers International (PMI), Fluidmaster, MOEN, Kohler recommend reducing water consumption of high efficiency toilets (HET) to 1.28 gallon per flush (gpf) and high efficiency urinals (HEU) to 0.5 gpf.

- ☐ Investor Owned Utilities and Natural Resources Defense Council propose raising the water efficiency level to 1.28 gpf for toilets, and 0.5 gpf for floor-mounted urinals, and 0.125 for all other urinals, and to align with the definitions in Title 20 to ASME and DOE standards.



Water Appliances

Faucets:

- ☐ Plumbing Manufacturers International (PMI), Fluidmaster, MOEN, Kohler propose adoption of the requirements for residential, public use, and metering lavatory faucets that are found in the 2013 California Green Building Standards Code, Title 24 Part 11. This code mandates that residential lavatory faucets are limited to 1.5 GPM

- ☐ Investor Owned Utilities and Natural Resources Defense Council propose improving the water efficiency standards for residential lavatory and kitchen faucets. The proposed standard for lavatory faucets would be a maximum flow rate of 1.0 gallon per minute.



Water Appliances

Water Meters:

- ☐ American Water Works Association, Investor Owned Utilities and Natural Resources Defense Fund propose standards for accurate metering and accountability.
- ☐ Badger Meters, Concerned Board Members and General Managers of water districts and Theresa Whatleys oppose adopting standards for water meters .



Other Appliances

Air Filters:

- ☐ Investor Owned Utilities and Natural Resources Defense Fund recommend MERV and pressure drop at 30 and 50 fpm.
- ☐ 3M recommends PM2.5 and a new “average lifetime resistance.”
- ☐ Service Champions supports the labeling of air filters.

Commercial Clothes Dryers:

- ☐ Investor Owned Utilities and Natural Resources Defense Fund recommend minimum energy efficiency standards
- ☐ Association of Home Appliance Manufacturers opposes adopting any standards.



Other Appliances

Portable Electric Spas:

- ☐ Investor Owned Utilities and Natural Resources Defense Fund recommend a new mandatory label removable upon sale.
- ☐ International Hot Tub Association recommends adopting APSP-14 labeling requirements.

Residential Pools:

- ☐ Investor Owned Utilities and Natural Resources Defense Fund recommend adopting minimum energy efficiency standards for pool pumps, controllers, heaters and motors.



Where to Find Proposals?

These proposals are currently available on the Commission's website

[http://www.energy.ca.gov/appliances/2013rulemaking/
documents/proposals/](http://www.energy.ca.gov/appliances/2013rulemaking/documents/proposals/)



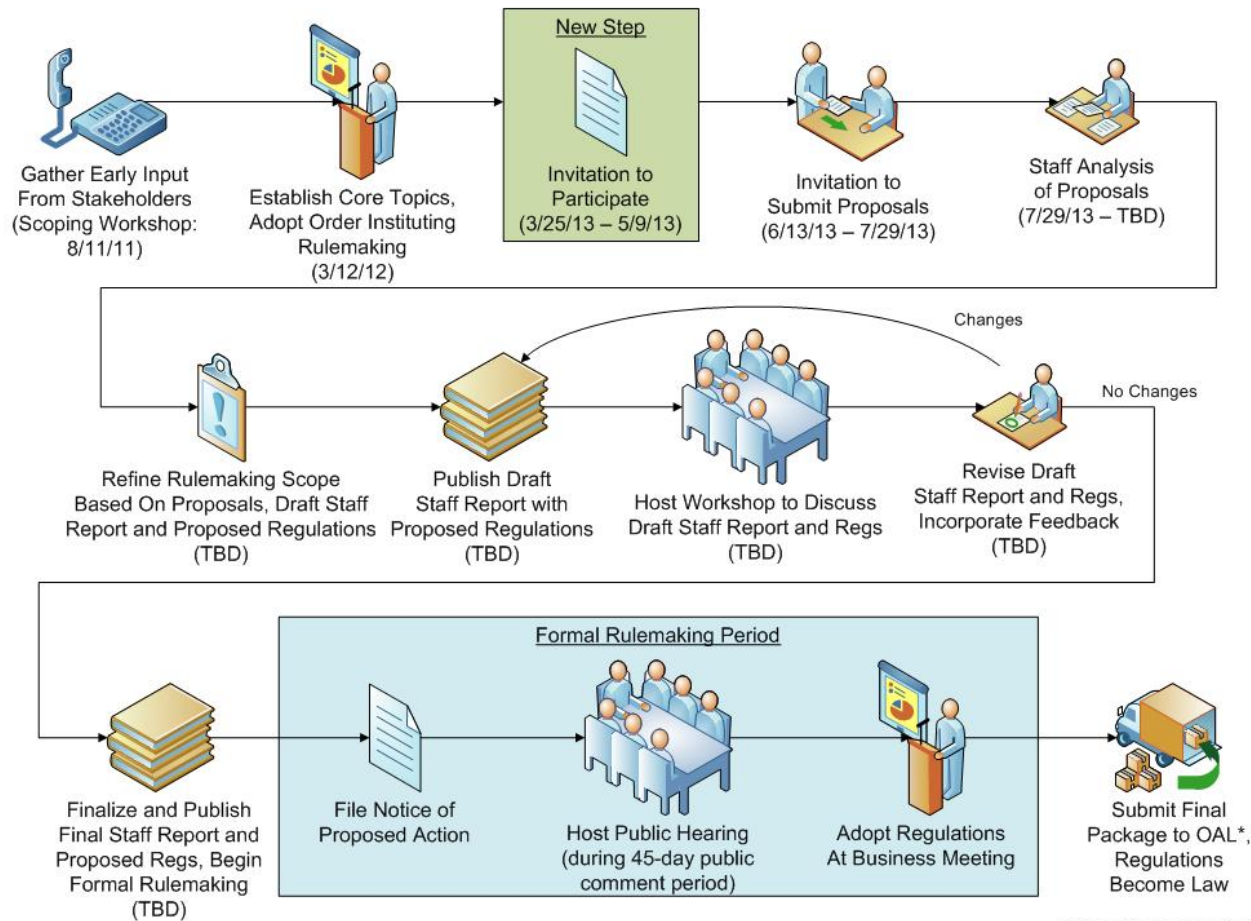
Who to Call?

- Displays & Game Consoles:
 - Josh Butzbaugh @ 916-653-6231
- Computers, Set-top Boxes & Network Equipment, LEDs:
 - Ken Rider @ 916-654-5006
- Small-diameter Directional Lamps, Fluorescent Dimming Ballasts:
 - Harinder Singh @ 916-654-4091
- Water Appliances, Commercial Clothes Dryers,
Residential Pool Pumps & Pool Pump Motors:
 - Tuan Ngo @ 916-651-2908
- Air Filters, Portable Electric Spas:
 - Josh Butzbaugh @ 916-653-6231
- Office Manager – for any other questions or concerns:
 - Consuelo Martinez @ 916-651-3003



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Next Steps





Questions?

Comments?



Thank you!

John Nuffer

John.Nuffer@energy.ca.gov/916-653-5851

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Other information can be found at:

<http://www.energy.ca.gov/appliances/2013rulemaking/index.html>